

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/537,562 A

Source: PG

Date Processed by STIC: 6/5/06

ENTERED



PCT

RAW SEQUENCE LISTING

DATE: 06/05/2006

PATENT APPLICATION: US/10/537,562A

TIME: 08:56:32

Input Set : A:\9310-150.ST25.TXT

Output Set : N:\CRF4\06052006\J537562A.raw

```

3 <110> APPLICANT: Venema, Fokke
5 <120> TITLE OF INVENTION: Method for lowering both sequence variations and increase of
base
6     line effects in a diagnostic hybridisation assay, assay for
7     performing such a method and probe for use in the assay
9 <130> FILE REFERENCE: 9310-150
11 <140> CURRENT APPLICATION NUMBER: US 10/537,562A
C--> 12 <141> CURRENT FILING DATE: 2005-06-03
14 <150> PRIOR APPLICATION NUMBER: PCT/EP2003/013676
15 <151> PRIOR FILING DATE: 2003-12-02
17 <150> PRIOR APPLICATION NUMBER: EP 02080125.4
18 <151> PRIOR FILING DATE: 2002-12-03
20 <160> NUMBER OF SEQ ID NOS: 12
22 <170> SOFTWARE: PatentIn version 3.2
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 26
26 <212> TYPE: DNA
27 <213> ORGANISM: Artificial
29 <220> FEATURE:
30 <223> OTHER INFORMATION: Molecular beacon Ref
33 <220> FEATURE:
34 <221> NAME/KEY: misc_feature
35 <222> LOCATION: (1)..(26)
36 <223> OTHER INFORMATION: n = inosine
38 <400> SEQUENCE: 1
W--> 39 atcaatgagg angctgcaga ntggga 26
42 <210> SEQ ID NO: 2
43 <211> LENGTH: 26
44 <212> TYPE: DNA
45 <213> ORGANISM: Artificial
47 <220> FEATURE:
48 <223> OTHER INFORMATION: Molecular beacon Me-1
51 <220> FEATURE:
52 <221> NAME/KEY: misc_feature
53 <222> LOCATION: (1)..(26)
54 <223> OTHER INFORMATION: n = inosine;
56 <220> FEATURE:
57 <221> NAME/KEY: modified_base
58 <222> LOCATION: (4)..(5)
59 <223> OTHER INFORMATION: 2'-O-methyladenine
61 <220> FEATURE:
62 <221> NAME/KEY: modified_base
63 <222> LOCATION: (8)..(8)
64 <223> OTHER INFORMATION: 2'-O-methyladenine

```

RAW SEQUENCE LISTING

DATE: 06/05/2006

PATENT APPLICATION: US/10/537,562A

TIME: 08:56:32

Input Set : A:\9310-150.ST25.TXT

Output Set: N:\CRF4\06052006\J537562A.raw

```

66 <220> FEATURE:
67 <221> NAME/KEY: modified_base
68 <222> LOCATION: (11)..(11)
69 <223> OTHER INFORMATION: 2'-O-methyladenine
71 <220> FEATURE:
72 <221> NAME/KEY: modified_base
73 <222> LOCATION: (18)..(18)
74 <223> OTHER INFORMATION: 2'-O-methyladenine
76 <220> FEATURE:
77 <221> NAME/KEY: modified_base
78 <222> LOCATION: (20)..(20)
79 <223> OTHER INFORMATION: 2'-O-methyladenine
81 <400> SEQUENCE: 2
W--> 82 atcaatgagg angctgcaga ntggga 26
85 <210> SEQ ID NO: 3
86 <211> LENGTH: 26
87 <212> TYPE: DNA
88 <213> ORGANISM: Artificial
90 <220> FEATURE:
91 <223> OTHER INFORMATION: Molecular beacon Me-2
94 <220> FEATURE:
95 <221> NAME/KEY: misc_feature
96 <222> LOCATION: (1)..(26)
97 <223> OTHER INFORMATION: n = inosine
99 <220> FEATURE:
100 <221> NAME/KEY: modified_base
101 <222> LOCATION: (4)..(5)
102 <223> OTHER INFORMATION: 2'-O-methyladenine
104 <220> FEATURE:
105 <221> NAME/KEY: modified_base
106 <222> LOCATION: (7)..(7)
107 <223> OTHER INFORMATION: 2'-O-methylguanine
109 <220> FEATURE:
110 <221> NAME/KEY: modified_base
111 <222> LOCATION: (9)..(10)
112 <223> OTHER INFORMATION: 2'-O-methylguanine
114 <220> FEATURE:
115 <221> NAME/KEY: modified_base
116 <222> LOCATION: (11)..(11)
117 <223> OTHER INFORMATION: 2'-O-methyladenine
119 <220> FEATURE:
120 <221> NAME/KEY: modified_base
121 <222> LOCATION: (13)..(13)
122 <223> OTHER INFORMATION: 2'-O-methylguanine
124 <220> FEATURE:
125 <221> NAME/KEY: modified_base
126 <222> LOCATION: (16)..(16)
127 <223> OTHER INFORMATION: 2'-O-methylguanine
129 <220> FEATURE:

```

RAW SEQUENCE LISTING

DATE: 06/05/2006

PATENT APPLICATION: US/10/537,562A

TIME: 08:56:32

Input Set : A:\9310-150.ST25.TXT

Output Set: N:\CRF4\06052006\J537562A.raw

130 <221> NAME/KEY: modified_base
 131 <222> LOCATION: (19)..(19)
 132 <223> OTHER INFORMATION: 2'-O-methylguanine
 134 <220> FEATURE:
 135 <221> NAME/KEY: modified_base
 136 <222> LOCATION: (20)..(20)
 137 <223> OTHER INFORMATION: 2'-O-methyladenine
 139 <220> FEATURE:
 140 <221> NAME/KEY: modified_base
 141 <222> LOCATION: (23)..(24)
 142 <223> OTHER INFORMATION: 2'-O-methylguanine
 144 <400> SEQUENCE: 3/
 W--> 145 atcaatgagg angctgcaga ntggga 26
 148 <210> SEQ ID NO: 4
 149 <211> LENGTH: 26
 150 <212> TYPE: DNA
 151 <213> ORGANISM: Artificial
 153 <220> FEATURE:
 154 <223> OTHER INFORMATION: Molecular beacon Me-7
 157 <220> FEATURE:
 158 <221> NAME/KEY: misc_feature
 159 <222> LOCATION: (1)..(26)
 160 <223> OTHER INFORMATION: n = inosine
 162 <220> FEATURE:
 163 <221> NAME/KEY: modified_base
 164 <222> LOCATION: (5)..(5)
 165 <223> OTHER INFORMATION: 2'-O-methyladenine
 167 <220> FEATURE:
 168 <221> NAME/KEY: modified_base
 169 <222> LOCATION: (7)..(7)
 170 <223> OTHER INFORMATION: 2'-O-methylguanine
 172 <220> FEATURE:
 173 <221> NAME/KEY: modified_base
 174 <222> LOCATION: (9)..(10)
 175 <223> OTHER INFORMATION: 2'-O-methylguanine
 177 <220> FEATURE:
 178 <221> NAME/KEY: modified_base
 179 <222> LOCATION: (11)..(11)
 180 <223> OTHER INFORMATION: 2'-O-methyladenine
 182 <220> FEATURE:
 183 <221> NAME/KEY: modified_base
 184 <222> LOCATION: (13)..(13)
 185 <223> OTHER INFORMATION: 2'-O-methylguanine
 187 <220> FEATURE:
 188 <221> NAME/KEY: modified_base
 189 <222> LOCATION: (16)..(16)
 190 <223> OTHER INFORMATION: 2'-O-methylguanine
 192 <220> FEATURE:
 193 <221> NAME/KEY: modified_base

RAW SEQUENCE LISTING

DATE: 06/05/2006

PATENT APPLICATION: US/10/537,562A

TIME: 08:56:32

Input Set : A:\9310-150.ST25.TXT

Output Set: N:\CRF4\06052006\J537562A.raw

```

194 <222> LOCATION: (18)..(18)
195 <223> OTHER INFORMATION: 2'-O-methyladenine
197 <220> FEATURE:
198 <221> NAME/KEY: modified_base
199 <222> LOCATION: (19)..(19)
200 <223> OTHER INFORMATION: 2'-O-methylguanine
202 <220> FEATURE:
203 <221> NAME/KEY: modified_base
204 <222> LOCATION: (20)..(20)
205 <223> OTHER INFORMATION: 2'-O-methyladenine
207 <220> FEATURE:
208 <221> NAME/KEY: modified_base
209 <222> LOCATION: (23)..(25)
210 <223> OTHER INFORMATION: 2'-O-methylguanine
212 <400> SEQUENCE: 4
W--> 213 atcaatgagg angctgcaga ntggga 26
216 <210> SEQ ID NO: 5
217 <211> LENGTH: 26
218 <212> TYPE: DNA
219 <213> ORGANISM: Artificial
221 <220> FEATURE:
222 <223> OTHER INFORMATION: Molecular beacon Ref2
224 <400> SEQUENCE: 5
225 atcaatgagg aagctgcaga atggga 26
228 <210> SEQ ID NO: 6
229 <211> LENGTH: 26
230 <212> TYPE: DNA
231 <213> ORGANISM: Artificial
233 <220> FEATURE:
234 <223> OTHER INFORMATION: Molecular beacon LNA1
237 <220> FEATURE:
238 <221> NAME/KEY: modified_base
239 <222> LOCATION: (1)..(1)
240 <223> OTHER INFORMATION: LNA nucleotide of adenine
242 <220> FEATURE:
243 <221> NAME/KEY: modified_base
244 <222> LOCATION: (15)..(15)
245 <223> OTHER INFORMATION: LNA nucleotide of thymine
247 <400> SEQUENCE: 6
248 atcaatgagg aagctgcaga atggga 26
251 <210> SEQ ID NO: 7
252 <211> LENGTH: 26
253 <212> TYPE: DNA
254 <213> ORGANISM: Artificial
256 <220> FEATURE:
257 <223> OTHER INFORMATION: Molecular beacon LNA2
260 <220> FEATURE:
261 <221> NAME/KEY: modified_base
262 <222> LOCATION: (1)..(1)

```

RAW SEQUENCE LISTING

DATE: 06/05/2006

PATENT APPLICATION: US/10/537,562A

TIME: 08:56:32

Input Set : A:\9310-150.ST25.TXT

Output Set: N:\CRF4\06052006\J537562A.raw

```

263 <223> OTHER INFORMATION: LNA nucleotide of adenine
265 <220> FEATURE:
266 <221> NAME/KEY: modified_base
267 <222> LOCATION: (11)..(11)
268 <223> OTHER INFORMATION: LNA nucleotide of adenine
270 <220> FEATURE:
271 <221> NAME/KEY: modified_base
272 <222> LOCATION: (15)..(15)
273 <223> OTHER INFORMATION: LNA nucleotide of thymine
275 <400> SEQUENCE: 7
276 atcaatgagg aagctgcaga atggga 26
279 <210> SEQ ID NO: 8
280 <211> LENGTH: 26
281 <212> TYPE: DNA
282 <213> ORGANISM: Human immunodeficiency virus type 1
284 <400> SEQUENCE: 8
285 atcaatgagg aagctgcaga atggga 26
288 <210> SEQ ID NO: 9
289 <211> LENGTH: 26
290 <212> TYPE: DNA
291 <213> ORGANISM: Human immunodeficiency virus type 1
293 <400> SEQUENCE: 9
294 attaatgaag aagctgcaga gtggga 26
297 <210> SEQ ID NO: 10
298 <211> LENGTH: 26
299 <212> TYPE: DNA
300 <213> ORGANISM: Human immunodeficiency virus type 1
302 <400> SEQUENCE: 10
303 atcaatgagg aagcagcaga ctggga 26
306 <210> SEQ ID NO: 11
307 <211> LENGTH: 26
308 <212> TYPE: DNA
309 <213> ORGANISM: Human immunodeficiency virus type 1
311 <400> SEQUENCE: 11
312 atcaatgatg aagcagcaga ttggga 26
315 <210> SEQ ID NO: 12
316 <211> LENGTH: 26
317 <212> TYPE: DNA
318 <213> ORGANISM: Human immunodeficiency virus type 1
320 <400> SEQUENCE: 12
321 atcaatgagg aagcggcaga ttggga 26

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/537,562A

DATE: 06/05/2006
TIME: 08:56:33

Input Set : A:\9310-150.ST25.TXT

Output Set: N:\CRF4\06052006\J537562A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 12,21

Seq#:2; N Pos. 12,21

Seq#:3; N Pos. 12,21

Seq#:4; N Pos. 12,21

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7

VERIFICATION SUMMARY

DATE: 06/05/2006

PATENT APPLICATION: US/10/537,562A

TIME: 08:56:33

Input Set : A:\9310-150.ST25.TXT

Output Set: N:\CRF4\06052006\J537562A.raw

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:39 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:82 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:145 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0